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1. N11A-T007: Modeling to Quantify Improved Durability of Superfinish Gear Processing

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop physics based gear health models to quantify the benefit of superfinish over conventional gear processing techniques with regard to pitting, spalling and tooth bending fatigue failure modes. DESCRIPTION: Superfinish processed gears have demonstrated improved performance and durability over conventionally processed gears. However, this improvement has not been quantified. ...

STTR Navy

2. N11A-T008: Modeling Tools for the Development of Innovative Wavelength Division Multiplexed (WDM) Local Area Networks (LAN)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop and demonstrate innovative analysis, modeling, and optimization tools and approaches that can characterize the complex interactions between optical network components. DESCRIPTION: Single-mode optical fiber based dense wavelength division multiplexing (DWDM) optical networks are well established as a leading solution for data communication links for commercial long distance t ...

STTR Navy

3. N11A-T009: High Density, High Efficiency Electrical Power Generation System for UAS Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a high-density, high-efficiency aircraft electrical power generation system with the goal of optimizing heat load, output power, size, and/or weight of future power generation systems. DESCRIPTION: Electrical power generation systems have inherent inefficiencies due to electrical and mechanical loss mechanisms. New technologies are sought to increase the power density and eff ...

STTR Navy

4. N11A-T010: High Fidelity Helicopter Lag Damper Model for Comprehensive Rotor Analysis

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop an experimentally validated high fidelity nonlinear lag damper model that accurately predicts behavior of passive and semi-active or active lag dampers for a range of temperatures, amplitudes, and frequency range, for implementation into a comprehensive rotorcraft analysis system for rotor loads prediction. DESCRIPTION: The use of a Health and Usage Monitoring System (HUMS) f ...

STTR Navy

5. N11A-T011: Monolithic Beam-Combined Mid-Infrared Laser Array

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a power-scalable, robust, chip-based solution for a monolithic beam-combined quantum cascade laser (QCL) array with high continuous wave (CW) output power in the tens to hundreds of Watts and excellent beam quality in the mid-wave infrared (MWIR) spectral range for infrared countermeasure and other relevant DoD applications. DESCRIPTION: High-power, monolithic, cost-effective ...

STTR Navy

6. N11A-T012: Emitter Geolocation Enhancements for Time-Sensitive Targeting and Naval Battlespace Awareness

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop, analyze and deploy enhanced techniques to improve emitter detection and geolocation performance for improved time-sensitive targeting and Naval Battlespace Awareness DESCRIPTION: Traditional techniques for emitter geolocation include Angle of Arrival (AOA) for single sensor platform situations and Time Difference of Arrival / Frequency Difference of Arrival (TDOA/FDOA) as a ...

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7. N11A-T013: Mitigation of Fuel Tank Explosions and Fires from IED Blasts

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To research, understand, and develop strategies for mitigating fuel tank explosions from improvised explosive device (IED) blasts for Marine Corps vehicle applications. DESCRIPTION: With the increased threat of IEDs during combat operations it is imperative to create a solution to decrease the severity of IED blasts on vehicles, particularly blasts impacting the fuel tank. When comb ...

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8. N11A-T014: Advanced Flame Resistant Resin System for Carbon Fiber Reinforced Composite Shipboard Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop new affordable non-halogenated polymeric resin materials that have the improved structural, thermal and Fire, Smoke, and Toxicity (FST) behavior when compared to conventional brominated vinyl esters (Derakane 510A) which are currently in use by the U.S. Navy in topside structures. Special emphasis will be given to the structural and thermal characteristics of the polymeric sy ...

STTR Navy

9. N11A-T015: Image Feature Extraction for Improved EW Classification

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: The objective of this topic is to develop an innovative data sharing and data fusion approach for improving situational awareness by combining feature extractions from both the on board imaging sensor (i.e., Photonics Mast and AN/BVS-1) and EW sensors (i.e., AN/BLQ-10) to create better separation in the decision space, resulting in an improvement in automatic classification and a reduc ...

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10. N11A-T016: Tunable Bandstop Filters for Suppression of Co-site Interference and Jamming Sources

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To design and develop tunable bandstop filters capable of dynamically changing bandwidth, center frequency, and stop band attenuation in the 2 GHz to 18 GHz band for ship board co-site interference and jamming source mitigation. DESCRIPTION: The radio spectrum has become extremely crowded in the past decade due to the exponential growth of wireless systems. With multiple wireless sys ...

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